Q.1) Fill in the blank   (10 x 1 = 10)

a) The Ratio of 4L. and 40 ml. is   _____.

b) A symbol having a fixed numerical value is called_____.

c) (-2abc + 4abc – 2abc) =_____.

d) Commutative property does not hold good for ____ and _____ in integers.

e) Cost Price – Selling Price =_____.

f) ____is that value of observations which occurs most frequently .

g) The data, are not arranged in any order is called _____.

h) The multiplicative inverse of (-3) is _____.

i) When two ratios are equal, then their terms are said to be in _____.

j) The distance around a circular region is called its _____.

Q.2)   Write True / False   (5 x 1 = 5)

a) The mode of a set of observation is the value which occurs most.

b) The data collected by a person and used by another person is called Primary data.

c) Area is the distance around a closed figure.

d) Two line segments are congruent, If their measurement is equal.

e) Ratio can not be expressed as a fraction or as a percentage

Q. 3) CHOOSE THE CORRECT OPTION   (5 X 1 = 5)

i) In -12 xy, the coefficient of x is

   a) -12   b) 12   c) -12y

ii)   The highest power of a particular term in an algebraic expression is called

   a)   Coefficient   b) Power   c) Degree

iii) 25% of Rs. 200 is_____.

   a) 50   b) 100   c) 150

iv)   Money borrowed is called_____.

   a) Amount   b) Principal   c) None of these

v)   Which of the following is not true ?

a) (-12) ÷ 1 = 12   b) (-12) ÷ (-1) = 12   c) (12) x (-1) = -12

Q.4)   **Solve these _____**   **(5x2 = 10)**

a) Write each of the following in the expanded form _
   i) a^2b^5 ii) $30x^2y^3z^4$
b) Find the circumference of a circle, whose radius is 7 cm.
c) Subtract 20x – 15xy from -15x -20xy by column method.
d) Find the mean of first 10 whole numbers.
e) Find the value of 15% of 1.5 L.
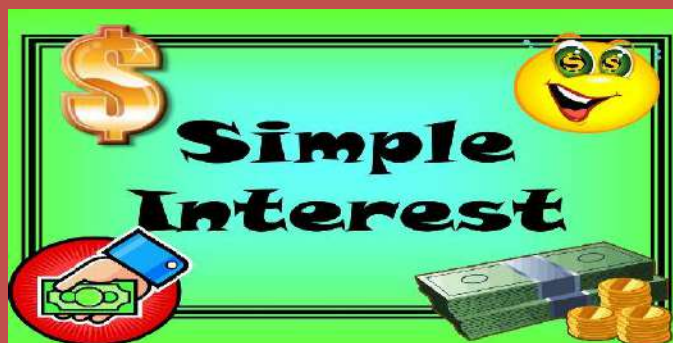
Q.5) Solve these _____   **(4x3 =12)**
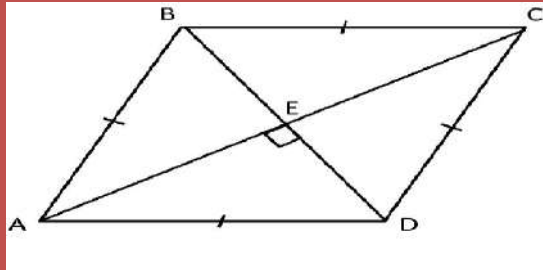a) The radius of the wheel of a car is 21 cm., How many times will it revolve to travel a distance of 66 Km?

    b) A sum of rupee 800 is lent for 1 year at the rate of 18% per annum. Find the interest.

c) The diagonals of a rhombus bisect each other at right angles. Use this fact to find the area of rhombus whose diagonals are of lengths 8 cm. and 6 cm.

d) What would be the mean, median and mode of the following data?1,1, 2, 3, 8, 2, 8, 8 and 2

Q.6) **Solve these _____**   (2x4 =8)
  a) If A = (-4x + 12 xy) and B = (-3x – 10xy), find (2A – 3B)

 b) Temperature of a place is (- 20) degree celcius. If it is increased by 11 degree celcius, find the final temperature of place.